

Date: Sat, 2 Apr 94 04:30:02 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #366
To: Info-Hams

Info-Hams Digest Sat, 2 Apr 94 Volume 94 : Issue 366

Today's Topics:

73

[News] Electricity, Leukemia Studied
Daily Summary of Solar Geophysical Activity for 31 March
Obscenity on ham bands
QSL Managers Wanted - 1994 ARRL DX Contest
Source for RF Power MOSFETS (IRF511)
Which HF rigs have Transverter Jacks?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 1 Apr 94 12:49:21
From: ihnp4.ucsd.edu!usc!yeshua.marcam.com!zip.eecs.umich.edu!zip.eecs.umich.edu!
hideg@network.ucsd.edu
Subject: 73
To: info-hams@ucsd.edu

Someone on here said that "saying 73 without the s sounds stupid."

To me, '73' is merely a code, or token that stands for something else.
In this case it is "best regards", which is plural.

I just make a simple substitution: '73' instead of 'best regards'. Is
that too difficult to comprehend?

73

--Steve Hideg
hideg@erim.org

p.s. My repeater beeps and has an autopatch. My users love it, and don't abuse it.

Date: Fri, 1 Apr 1994 14:56:03 GMT
From: ihnp4.ucsd.edu!swrinde!emory!wa4mei!ke4zv!gary@network.ucsd.edu
Subject: [News] Electricity, Leukemia Studied
To: info-hams@ucsd.edu

In article <CnJow6.H6B@news.Hawaii.Edu> jherman@uhunix3.uhcc.Hawaii.Edu (Jeffrey Herman) writes:

>Thought this might be of interest to everyone. Note that the phrase
>'statistically significant' was used also by the EPA and FCC in their
>joint study concerning leukemia and high RF fields conducted here in
>Honolulu in regard to three bcst xmtrs located in a residential
>neighborhood.

>USA TODAY Update

>March 31, 1994

>

>ELECTRICITY, LEUKEMIA STUDIED:

> A new report finds an "association" between exposure to
>magnetic fields and leukemia. The study, in next month's American
>Journal of Epidemiology, looked at records of more than 223,000
>electric utility workers. It found a "statistically significant"
>association, but no cause-and-effect relationship, between
>exposure to magnetic fields and acute nonlymphocytic leukemia.

In the Atlanta Journal, the story said that they found an excess of nonlymphocytic leukemia of 1 in 200,000. IE 7 cases instead of the expected 6 in the sample. Now I'm not a mathematician, but I'm not convinced that's a statistically significant change. I thought that probabilities on the same order as the sample size were considered meaningless.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: Thu, 31 Mar 1994 23:09:04 MST
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!math.ohio-state.edu!
cyber2.cyberstore.ca!nntp.cs.ubc.ca!alberta!ve6mgs!usenet@network.ucsd.edu
Subject: Daily Summary of Solar Geophysical Activity for 31 March
To: info-hams@ucsd.edu

/\

DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

31 MARCH, 1994

/\

(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 31 MARCH, 1994

NOTE: The intense stratospheric warming covers the polar region at 10 HPA.
Mean zonal winds at 60N are continuously weakening and will begin an
easterly direction at the beginning of April at 10 HPA. The
temperature gradient is reversed from 60N and the pole in the middle
and upper stratosphere from 30 HPA upwards and in the lower
stratosphere during the next day. The final transition to summer
conditions is expected to take place during April.

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 090, 03/31/94
10.7 FLUX=085.0 90-AVG=102 SSN=061 BKI=2212 2321 BAI=007
BGND-XRAY=A7.2 FLU1=5.4E+05 FLU10=1.2E+04 PKI=2212 2221 PAI=005
BOU-DEV=016,014,008,018,013,020,012,005 DEV-AVG=013 NT SWF=00:000
XRAY-MAX= B2.8 @ 1336UT XRAY-MIN= A5.8 @ 2305UT XRAY-AVG= A9.6
NEUTN-MAX= +002% @ 2345UT NEUTN-MIN= -002% @ 1250UT NEUTN-AVG= +0.0%
PCA-MAX= +0.2DB @ 2330UT PCA-MIN= -0.3DB @ 0635UT PCA-AVG= +0.0DB
BOUTF-MAX=55341NT @ 0526UT BOUTF-MIN=55318NT @ 1843UT BOUTF-AVG=55334NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+073,+000,+000
GOES6-MAX=P:+121NT@ 1940UT GOES6-MIN=N:-090NT@ 0421UT G6-AVG=+090,+024,-042
FLUXFCST=STD:085,085,083;SESC:085,085,083 BAI/PAI-FCST=010,015,025/010,020,040
KFCST=2223 3322 3344 4333 27DAY-AP=004,005 27DAY-KP=1112 1111 1112 1123
WARNINGS=*GSTRM;*AURMIDWRN
ALERTS=
!!END-DATA!!

NOTE: The Effective Sunspot Number for 30 MAR 94 was 42.8.
The Full Kp Indices for 30 MAR 94 are: 1o 1o 1+ 4o 3+ 3- 3o 3o
The 3-Hr Ap Indices for 30 MAR 94 are: 4 4 5 26 20 13 15 15
Greater than 2 MeV Electron Fluence for 31 MAR is: 1.0E+07

SYNOPSIS OF ACTIVITY

Solar activity was very low. Only minor optically uncorrelated B-class events were recorded this period. A limb event in the form of an eruptive prominence occurred on the west limb at S16 between 31/0601Z and 31/0735Z. Maximum radial extent was 0.29 solar radii. Region 7698 (S17W11) has shown some growth over the last 24 hours. All other regions are stable and quiet.

Solar activity forecast: solar activity is expected to be very low to low. Region 7698 exhibits the best chance of producing C-class activity.

The geomagnetic field has been at quiet to unsettled levels for the past 24 hours.

Geophysical activity forecast: at middle latitudes, the geomagnetic field is expected to be mostly unsettled on day's one and two becoming active on day three. At high latitudes, the field is expected to be unsettled on day one, mostly active on day two with active to minor storm conditions likely on day three. A favorably positioned recurrent coronal hole feature is expected to produce the activity beginning on day two with active to storm conditions likely to persist through 11 April.

Event probabilities 01 apr-03 apr

Class M	01/01/05
Class X	01/01/01
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 01 apr-03 apr

A. Middle Latitudes

Active	15/25/30
Minor Storm	10/15/30
Major-Severe Storm	05/05/10

B. High Latitudes

Active	15/25/30
Minor Storm	10/15/35
Major-Severe Storm	05/05/15

HF propagation conditions were normal over all regions. Normal conditions are expected to persist through 02 April. On 03 April, a well-placed coronal hole is expected to begin elevating levels of geomagnetic and auroral activity. Minor to major storming is expected to accompany this disturbance over the ensuing days in early April. Based on recurrence, this disturbance could keep propagation conditions well below normal for most of the first two weeks in April.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 31/2400Z MARCH

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
7695	S15W38	059	0000	AXX	00	001	ALPHA	
7696	S17W73	094	0070	DSO	05	007	BETA	
7697	N11W28	049	0000	AXX	00	001	ALPHA	
7698	S17W11	032	0050	DRO	05	012	BETA	
7694	N11W50	071					PLAGE	

REGIONS DUE TO RETURN 01 APRIL TO 03 APRIL

NMBR	LAT	LO
NONE		

LISTING OF SOLAR ENERGETIC EVENTS FOR 31 MARCH, 1994

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
NONE									

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 31 MARCH, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
31/ 0601		0735	S16W90	EPL				

INFERRED CORONAL HOLES. LOCATIONS VALID AT 31/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS									
	EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
72	N30W44	N08W64	N12W74	N31W49	076	ISO	POS	006	10830A
73	S35E86	S50E61	S28W23	S20W19	347	EXT	NEG	039	10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

```

-----
Date   Begin   Max    End   Xray   Op Region   Locn      2695 MHz   8800 MHz   15.4 GHz
-----
30 Mar: 0757   0813   0830   C1.9
        1157   1213   1223   B1.5
        1737   1749   1758           SF   7696   S17W59
        2226   2230   2236   B1.1

```

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

```

-----
          C   M   X       S   1   2   3   4   Total   (%)
          --  --  --       --  --  --  --  --   ---   -
Region 7696: 0   0   0       1   0   0   0   0     001   (25.0)
Uncorrelated: 1   0   0       0   0   0   0   0     003   (75.0)

```

Total Events: 004 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

```

-----
Date   Begin   Max    End   Xray   Op Region   Locn      Sweeps/Optical Observations
-----

```

NO EVENTS OBSERVED.

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

```

II       = Type II Sweep Frequency Event
III      = Type III Sweep
IV       = Type IV Sweep
V        = Type V Sweep
Continuum = Continuum Radio Event
Loop     = Loop Prominence System,
Spray    = Limb Spray,
Surge    = Bright Limb Surge,
EPL      = Eruptive Prominence on the Limb.

```

** End of Daily Report **

Date: Fri, 1 Apr 1994 13:59:08 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!darwin.sura.net!
hearst.acc.Virginia.EDU!cscsun!dtiller@network.ucsd.edu
Subject: Obscenity on ham bands
To: info-hams@ucsd.edu

dhughes@prairienet.org (Dan Hughes) writes:

>I just passed my no-code test last week, and have been listening to some
>ham chatter on my SW receiver. Saturday night on 3910 kHz I heard some
>of the most disgusting language I've encountered anywhere. One guy was
>spouting one obscenity after another, and three other guys were laughing
>at his inept signal and giving it right back to him. All but the
>instigator were regularly giving their calls. Is this pretty much what I
>have to look forward to?

I know at least one of those idiots peripherially. I also know that one
of them is a tech class licensee using phone on 80m. I wish I had one of
those kind of tech licenses - mine says HF phone on 10m only. I wish I
could remember their names...

--

David Tiller	Network Administrator	Voice: (804) 752-3710	
dtiller@rmc.edu	Randolph-Macon College	Fax: (804) 752-7231	
"Drunk, [Beowulf] slew	P.O. Box 5005	ICBM: 37d 42' 43.75" N	
no hearth companions."	Ashland, Va 23005	77d 31' 32.19" W	

Date: Fri, 1 Apr 1994 19:29:21 GMT
From: pa.dec.com!e2big.mko.dec.com!peavax.mlo.dec.com!sttng.mlo.dec.com!
reisert@decwrl.dec.com
Subject: QSL Managers Wanted - 1994 ARRL DX Contest
To: info-hams@ucsd.edu

Here is a long list of "interesting" callsigns we worked in the 1994
ARRL DX contests (both CW and SSB).

I am looking for any known QSL managers. If you know the manager for
one or more stations on this list, I would appreciate it. I will be
posting a followup message with the results.

Thanks & 73 - Jim AD1C

3D2KR DA2SV LZ5W TI4/AA7JM

3D2LA DA2ZF LZ6C TI5RLI
3DA0CA DU1AK LZ6R TK5EL
3V8AS EA6ACC NP4Z TK5EP
4K2MAL EA6BH OA4CWR TK5ML
4M1DX EA6MQ OA4ED TM1C
4M2NY EA6ZY OA4EI TM2T
4M5A EA8AB OA4QV TM5G
4M5B EA8AD OD5SK TM9C
4N1A EA8AFJ OH0KDY TU2MA
4N1KT EA8BXQ OH0MM TU2XZ
4N1Z EA8CN OL5PLZ TU4EV
4N7M EA8DM OM0W TU4SUP
4O70X EA8PP OM2I TZ6LH
4O7AV EA8ZS OM3A UR6F
4S7DA EA9EU OM5M US5W
4S7EA EA9IE OM5R US8Q
4S7RM EA9LZ OM7M US9Q
4S7RO EA9UK OM8A UT2I
5B4ABU ED8USA OT4T UT7W
5B4ADA EI6S OT4V UU1J
5N0SVL EI7M OY1HJ UU5J
5V7JB EI8W P40J V21AJ
5X1C EL2PP P40R V26AS
5Z4JD EX8F P43GR V29AD
6E2T EX8W P49V V29NR
6Y5/KS0T FG5BP PJ8CW V31BW
6Y5IC FG5FR PJ8H V31DX
7P8EB FK8GS PJ9B V31LM
7P8EZ FM5CD PQ0Z V31ML
7Q7TA FM5DN PQ4B V31RL
7X2DG F00HAR PR0R V31TP
7X2HM FP5CJ PR2R V31WW
7X2JF FP5R0 PS0F V44KA0
7X2TM GB0THG PV2A V44NK
7Z1AB GB5DX PW2N V47WK
7Z2AB HC1HC PY0FM V50CM
8P6AF HC1J0L PZ1DY V51C
8P9DX HC10T PZ1EL V51E
8R1/KK4WW HC1VK RA1A V7A
8R1/N4VA HC4MZ RK2WY VP2EEE
9A3B HC5AI RU0L VP2MDB
9A5D HG1S RU1A VP2MH
9A5Y HG1W RW1A VP2VF
9A7A HG5A RX9W VP5B
9G1NS HG5C S42ABF VP5E
9G1PW HG6Y S50C VP5P
9H1BT HG7C S50K VP80N
9H1DE HH7PV S50L VP9GD

9H1EL HI8LC S50R VP9KK
9H1FP HI80MA S51W VP9MZ
9J2FR HK3JJH/1 S53M VQ9QM
9K2UB HP1XBH S530 VQ9SS
9K2ZC HP1XQN S53V VQ9TV
9L2SH HP2CWB S54A VR2IH
9L3AC HR1ERL S54W WH6R
9Y4CG HR1JRR S54X WP4U
9Y4VU HR2BDC S56A X5BYZ
A22DX HV4NAC S56M XA5T
A22EX HZ1MM S57A XE1X
A35CT I1A S57C XR1I
A35SQ IB0C S57J YB0ARF
A71CW IB4M S570 YB0ASI
AH8A II2M S57U YB30SE
BV/OH2BH II2T/3 S57X YB6INU
C6AAC II8R S59A YC0ARO
C6AFV IO5A S59L YC2EWZ
C6AGN IO7G SN1I YI9CW
C6AHK IQ2A SN3A YL0A
C6AHL IQ2L SP1S YN1EUG
CE0ZIS IQ4A SU2MT YS1HCW
CL8FN IQ6A SV0AN YS1X
CM2DD IR0R SV1ATV YT1R
CM2LE IR1A SV1BSX YT7A
CM7JD IR1T SV1CEI YT7M
CN2GF IR2W SV1DT YT7P
CN8EA IR4G SV1JA YT9C
CN8ST IS0R SV1NA YZ94DX
C02CR IU1R SV2BFN Z31ET
C02DZ IU2MM SV2BOH Z31GB
C02HA IU6F SV2YC Z31GX
C02KK IY0A T30JJ Z31PK
CP1BA J69MV T5YOU Z32DR
CP5AU JT1BV T77C Z32E0
CQ5UW JT1M T77J Z32JA
CR3R KG4CB T77V Z32KV
CR8BWW KG4DX T9/PA3DZN Z32RCA
CT3CU KH8BB T91AVW Z32ZM
CT3FT KP2/KE2VB T91EL ZA/OK2PSZ
CT5P KP2AD T91ELD ZA1B
CT9M KP4CZ T91ENS ZA1MX
CU2AE KP4RV T92X ZC4ML
CU2AF KP4UK T94IW ZD7DP
CU2EA KP4VA T94ON ZD8M
CU2EL KP4VP T94US ZF2CF
CU2QN L5P T95X ZF2ND
CU3BP LA0T T97T ZF2RT

CX7BF LA20 T99T ZF2WN
CX7BV LR0DX TA2MI ZF8BS
CX8AT LR73A TA2ZI ZK1AVY
D2EGH LS0A TA3D ZP5CGL
D2SA LT1N TE5T ZP5MAL
DA0FUL LT1V TG9AJR ZP5XHM
DA1FJ LT5F TG9NX ZP5XYE
DA1KD LX4B TI2CC ZP6XR
DA1ND LZ0A TI2GN ZP9XB
DA1VC LZ5M TI2LO ZY2CP
DA2JV LZ5R TI2VVR ZY2ZI

--

Jim Reisert AD1C Internet: reisert@mlo.dec.com
Digital Equipment Corp. UUCP: ...decwrl!mlo.dec.com!reisert
146 Main Street - ML03-6/C9 Voice: 508-493-5747
Maynard, MA 01754 FAX: 508-493-0395

Date: Fri, 1 Apr 1994 14:54:25 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!
europa.eng.gtefsd.com!news.umbc.edu!haven.umd.edu!cs.umd.edu!zombie.ncsc.mil!
admii!ovation!ramcad.pica.army.mil!mellis@@.
Subject: Source for RF Power MOSFETS (IRF511)
To: info-hams@ucsd.edu

I>> Can anyone tell me a source for IRF511/510 MOSFETs? Also are there other types
of MOSFETs suitable saw a power of 40 or 50
>>watts range? Where can I get them? Tks.
>>
>>73,
>>Daniel
>
>Hell, I think Radio Shack carries the IRF511. Probably expensive though.
>Try Digi-Key.

=====

Radio Shack carries the IRF-510

60 V, 3A, "On" resistance 0.6 Ohm.

Part # 276-2072, cost: \$1.99

Source, 1993 R/S catalog. (latest I've got here).

----Mark N2WZB

Date: Fri, 1 Apr 1994 15:01:14 GMT
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!swrinde!emory!wa4mei!ke4zv!
gary@network.ucsd.edu
Subject: Which HF rigs have Transverter Jacks?
To: info-hams@ucsd.edu

In article <1994Apr1.002144.141549@yuma> galen@picea.CFNR.ColoState.EDU (Galen Watts) writes:

>Subject line says most of it. I know the Kenwood TS-820 has 'em and I've
>heard the TS-430 has 'em, but I'm not sure. I'm mostly interested in
>synthesized rigs, but any info is greatly appreciated!!!
>Galen, KF0YJ

Icom IC-735 has them, IC-725 doesn't.

Gary

--
Gary Coffman KE4ZV | You make it, | gatech!wa4mei!ke4zv!gary
Destructive Testing Systems | we break it. | uunet!rsiatl!ke4zv!gary
534 Shannon Way | Guaranteed! | emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244 | |

Date: Fri, 1 Apr 1994 14:48:22 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!emory!
wa4mei!ke4zv!gary@network.ucsd.edu
To: info-hams@ucsd.edu

References <CnG3Jt.Htw@srgenprp.sr.hp.com>, <CnI0t1.DJ@seastar.org>,
<2nfbjs\$ilt@hpscit.sc.hp.com>
Reply-To : gary@ke4zv.atl.ga.us (Gary Coffman)
Subject : Re: How phasing SSB Exciters Work (Was: RF and AF speech processors)

In article <2nfbjs\$ilt@hpscit.sc.hp.com> rkarlqu@scd.hp.com (Richard Karlquist) writes:

>
>The tough part isn't the audio 90 degree shift or the RF 90 degree shift,
>it's getting amplitude and phase matched mixers.

That's easy, 7360s are almost ideal devices for this.

Gary

--
Gary Coffman KE4ZV | You make it, | gatech!wa4mei!ke4zv!gary

Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: Fri, 1 Apr 1994 15:22:41 GMT
From: ihnp4.ucsd.edu!swrinde!emory!wa4mei!ke4zv!gary@network.ucsd.edu
To: info-hams@ucsd.edu

References <VBREAUULT.94Mar25134216@rinhp750.gmr.com>,
<Cn8ttu.AHI@news.hawaii.edu>, <2nf2sm\$rt6@cosmos.nectech.com>
Reply-To : gary@ke4zv.atl.ga.us (Gary Coffman)
Subject : Re: Voice mail on a repeater?

In article <2nf2sm\$rt6@cosmos.nectech.com> rbono@cosmos.nectech.com (Richard J. Bono) writes:
> Beeps breed bad habits!

No, they just don't *cure* bad habits. People can react the same way to a squelch crash as to a beep. I've experienced one beep system that *does* tend to cure bad habits, but I found it too obnoxious to implement. It uses twin beeps. If you key after the first beep, you get 10 seconds before repeater time out. If you wait for the second beep, you get the normal 3 minutes. The gap is for breaking stations to insert their callsigns. Getting everyone to patiently wait their turn in a conversation is a lost cause when you have 5 or 10 people all wanting to get their two cents in a hot discussion. It's the cocktail party, or beer and pizza, syndrome except that when several people try to talk through the repeater at once, you can't understand everyone. Even so, the tailgating and doubling are preferable to a stuffy ordered roundtable.

Ideally, we'd all have duplex radios so we could do CSMA. For now, the best we can do is try to avoid being long winded since we may wind up having to repeat everything after we unkey and realize we were doubling for the whole 2 minutes. :-(

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

End of Info-Hams Digest V94 #366

